

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Daniel C. Guterman et al.		
Title:	EEPROM With Split Gate Source Side Injection		
Application No.:	Unassigned	Filing Date:	Herewith
Examiner:	Unassigned	Group Art Unit:	Unassigned
Docket No.:	SNDK.138USK	Conf. No.:	Unassigned

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of these documents are not enclosed, since they were either previously submitted in the parent Application No. 10/236,408 or cited by the Examiner in that application.

Citation of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made a representation that a search has been made, (other than as indicated by any cited document); or

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3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

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LABEL NO:**

EV321716390SUS

Respectfully submitted,



Gerald P. Parsons
Attorney for Applicants
Reg. No. 24,486

September 29, 2003
Date

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INFORMATION DISCLOSURE CITATION

COPY

PTO-1449

 ATTY. DOCKET NO.
M-10249-15C US

 SERIAL NO.
To be assigned

 APPLICANT
GUTERMAN ET AL.

 FILING DATE
To be assigned

 GROUP
To be assigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	RE 32,401	04/14/87	Beilstein, Jr. et al.	365	182	02/27/81
	4,074,304	02/14/78	Shiba	357	59	03/02/77
	4,151,020	04/24/79	McElroy	148	187	01/26/77
	4,151,021	04/24/79	McElroy	148	187	01/26/77
	4,184,207	01/15/80	McElroy	365	185	07/12/78
	4,202,044	05/06/80	Beilstein, Jr. et al.	365	182	06/13/78
	4,271,421	06/02/81	McElroy	357	41	02/12/79
	4,302,766	11/24/81	Guterman et al.	357	41	01/05/79
	4,331,968	05/25/82	Gosney, Jr. et al.	357	23	03/17/80
	4,380,057	04/12/83	Kotecha et al.	365	185	10/27/80
	4,456,971	06/26/84	Fukuda et al.	364	900	02/04/82
	4,462,090	07/24/84	Iizuka	365	185	06/30/82
	4,488,265	12/11/84	Kotecha	365	189	06/30/82
	4,561,004	12/24/85	Kuo et al.	357	23.5	03/01/82
	4,575,925	03/18/86	Kanbara et al.	29	576	11/28/84
	4,583,201	04/15/86	Bertin et al.	365	104	09/08/83
	4,616,402	10/14/86	Mori	29	571	05/02/85
	4,622,656	11/11/86	Kamiya et al.	365	185	12/15/83
	4,652,897	03/24/87	Okuyama et al.	357	23.5	07/15/85
	4,663,827	05/12/87	Nakahara	29	571	12/19/85
	4,677,736	07/07/87	Brown	29	571	04/17/86
	4,794,565	12/27/88	Wu et al.	365	185	09/15/86
	4,803,529	02/07/89	Masuoka	357	23.5	11/13/81
EXAMINER				DATE CONSIDERED		

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INFORMATION DISCLOSURE CITATION COPY PTO-1449				ATTY. DOCKET NO. M-10249-15C-US		SERIAL NO. To be assigned	
				APPLICANT GUTERMAN ET AL.			
				FILING DATE To be assigned		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	4,805,142	02/14/89	Bertin et al.	365	100	07/01/86	
	4,811,285	03/07/89	Walker et al.	365	45	01/11/88	
	4,811,294	03/07/89	Kobayashi et al.	365	189	06/20/86	
	4,821,236	04/11/89	Hayashi et al.	365	185	02/09/87	
	4,943,962	07/24/90	Imamiya et al.	365	230.08	10/28/88	
	4,990,979	02/05/91	Otto	357	23.5	04/27/89	
	4,997,781	03/05/91	Tigelaar	437	43	02/14/89	
	5,011,787	04/30/91	Jeuch	437	52	07/07/89	
	5,017,515	05/21/91	Gill	437	229	10/02/89	
	5,028,553	07/02/91	Esquivel et al.	437	43	06/05/90	
	5,029,130	07/02/91	Yeh	365	185	01/22/90	
	5,045,488	09/03/91	Yeh	437	43	01/2/90	
	5,057,886	10/15/91	Riemenschneider et al.	357	23.5	12/21/88	
	5,067,108	11/19/91	Jenq	365	185	01/22/90	
	5,070,032	12/03/91	Yuan et al.	437	43	03/15/89	
	5,081,054	01/14/92	Wu et al.	437	43	02/05/91	
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	5,095,344	03/10/92	Harari	357	23.5	06/08/88	
	5,147,816	09/15/92	Gill et al.	437	52	07/26/91	
	5,172,338	12/15/92	Mehrotra et al.	365	185	04/11/90	
	5,204,841	04/20/93	Chappell et al.	365	230.05	04/23/92	
	5,218,569	06/08/93	Banks	365	189.01	02/08/91	
	5,225,361	07/06/93	Kakiuchi et al.	437	43	07/09/91	
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,247,485	09/21/93	Ide	365	230.01	03/26/92
	5,264,384	11/23/93	Kaya et al.	437	43	08/30/91
	5,278,439	01/11/94	Ma et al.	257	319	08/29/91
	5,279,982	01/18/94	Crotti	437	48	07/23/91
	5,280,446	01/18/94	Ma et al.	365	185	06/08/92
	5,284,784	02/08/94	Manley	437	43	10/02/91
	5,297,148	03/22/94	Harari et al.	371	10.2	10/20/92
	5,313,421	05/17/94	Guterman et al.	365	185	01/14/92
	5,323,355	06/21/94	Kato	365	230.01	01/22/92
	5,355,347	10/11/94	Cioaca	365	230.08	11/08/93
	5,377,147	12/27/94	Merchant et al.	365	200	08/11/93
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	5,396,468	03/07/95	Harari et al.	365	218	11/08/93
	5,412,600	05/02/95	Nakajima	185		10/08/92
	5,420,060	05/30/95	Gill et al.	437	52	09/13/93
	5,468,663	11/21/95	Bertin et al.	437	43	03/16/95
	5,491,657	02/13/96	Haddad et al.	365	185.27	02/24/95
	5,606,521	02/25/97	Kuo et al.	365	149	06/28/95
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	5,712,180	01/27/98	Guterman et al.	437	43	02/28/96
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U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,745,475	04/02/98	Ohno et al.	369	275.4	06/27/97	
	5,818,757	10/06/98	So et al	635	185.18	07/22/96	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
	WO 97/22123	06/19/97	PCT International Application	G11C	11/34	X	
	EP0725403A1	08/07/96	European Patent Application	G11C	11/56	X	
	WO 90/12400	10/18/90	PCT International Application	G11C	7/00	X	
	EP0373830	06/20/90	European Patent Application				X
	2-360	01/05/90	Japan				X
	6-118,1168	08/13/86	Japan				X
	1-304,784	12/08/89	Japan				X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	K. Naruke et al., "A New Flash-Erase EEPROM Cell with A Sidewall Select-Gate On Its Source Side", IEDM 89-603, IEEE (1989), pp. 603-606.						
	M. Kamiya et al., "EPROM Cell with High Gate Injection Efficiency", IEDM 82-741, IEEE (1982), p. 741-744.						
	J. Van Houdt, et al., "A 5-Volt-Only Fast-Programmable Flash EEPROM Cell with A Double Polysilicon Split-Gate Structure", Interuniversity Microelectronics Center (February 1991).						
	Yale Ma, et al. "A Dual-bit Split-Gate EEPROM (DSG) Cell in Contactless Array for Single-Vcc High Density Flash Memories", IEDM 94-57, IEEE (1994), pp. 57-60.						
	G.S. Alberts et al., "Multi-Bit Storage FET EAROM Cell", G.S. IBM Technical Disclosure Bulletin, Vol. 24, No. 7A (December 1981), pp. 3311-3314.						
	Takeshi Nakayama, "A 5-V-only One-Transistor 256K EEPROM with Page-Mode Erase", IEEE (August 1989), Vol. 24, No. 4, pp. 911-915.						
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U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Mike McConnell, et al., "An Experimental 4-Mb Flash EEPROM with Sector Erase", IEEE (April 1991), Vol. 26, No. 4, pp. 484-489.						
	Masaki Momodomi, et al., "A-4-Mb Flash EEPROM with Tight Programmed V _t Distribution", IEEE (April 1991), Vol. 26, No. 4, pp. 492-495.						
	Fujio Masuoka, et al., "A 256-kbit Flash E ² PROM Using Triple-Polysilicon Technology", IEEE (August 1987)						
	Dumitru Cioaca, et al., "A Million-Cycle 256K EEPROM", IEEE (October 1987), Vol. SC-22, No. 5, pp. 684-692.						
	Cristiano Calligaro, et al., "A New Serial Sensing Approach for Multistorage Non-Volatile Memories", IEEE (1995), pp. 21-26.						
	Min-hwa Chi, et al., "Multi-level Flash/EPROM Memories: New Self-convergent Programming Methods for Low-voltage Applications", IEDM 95-271, IEEE (1995), pp. 271-274.						
	International Search Results & Annex (Communication relating to PCT/US98/15657)						
EXAMINER				DATE CONSIDERED			

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U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.		Serial No.		
				M-10249-15C US		Unassigned		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicant(s)				
(Use several sheets if necessary)				Daniel C. Guterman et al.				
COPY				Filing Date		Group		
				Herewith		Unassigned		
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	4,112,507	9/5/1978	White et al.				
	AB	5,021,999	6/4/1991	Kohda et al.				
	AC	5,159,570	10/27/1992	Mitchell et al.				
	AD	5,364,806	11/15/1994	Ma et al.				
	AE	5,412,600	5/2/1995	Nakajima				
	AF	5,414,693	5/9/1995	Ma et al.				
	AG	5,757,044	5/26/1998	Kubota				
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AH							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AI	IBM Technical Disclosure Bulletin, "Vertical EEPROM Cell," Vol. 35, No. 4B, September 1992, pp. 130-131.						
	AJ							
	AK							
Examiner			Date Considered					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>								

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U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.		Serial No.	
				M-10249-15C US		Unassigned	
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(Use several sheets if necessary)				Daniel C. Guterman et al.			
COPY				Filing Date		Group	
				Herewith		Unassigned	
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,776,810	Jul. 7, 1988	Guterman et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
Foreign Patent Documents							
							Translation
		Document	Date	Country	Class	Subclass	Yes No
	AH						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AI						
	AJ						
	AK						
Examiner			Date Considered				
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Notice of References Cited

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Application/Control No.

10/236,408

Applicant(s)/Patent Under
Reexamination
GUTERMAN ET AL.

Examiner

Stephen D. Meier

Art Unit

2822

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5293331	03-1994	Hart et al	—
	B	US-5313427	03-1994	Schreck et al	—
	C	US-5376571	12-1994	Bryant et al	—
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
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	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.		Application No.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				SNDK.138USF (formerly M-10249-15C US)		10/236,408	
(Use several sheets if necessary)				Applicants			
				Daniel C. Guterman et al.			
COPY				Filing Date		Group	
				September 5, 2002		2822	

U.S. Patent Documents							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	1	5,343,063	Aug. 30, 1994	Yuan et al.			

Foreign Patent Documents								
							Translation	
	Document	Date	Country	Class	Subclass	Yes	No	
	2	WO 97/22123	19 June 1997	WIPO				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	3	IBM Technical Disclosure Bulletin, "Vertical EEprom Cell," Vol. 35, No. 4B, September 1992, pp. 130-131.

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